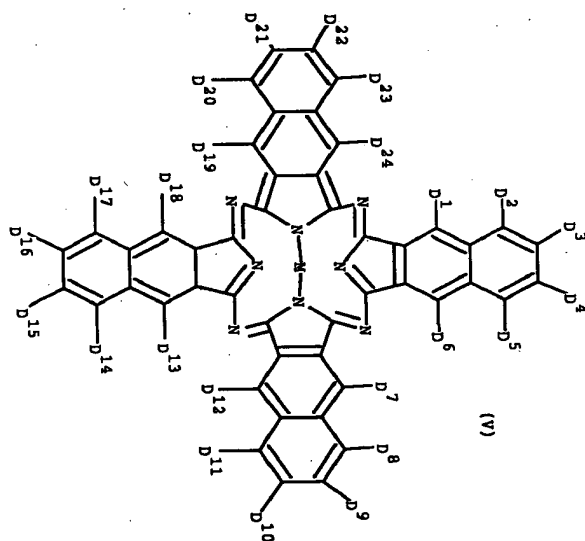
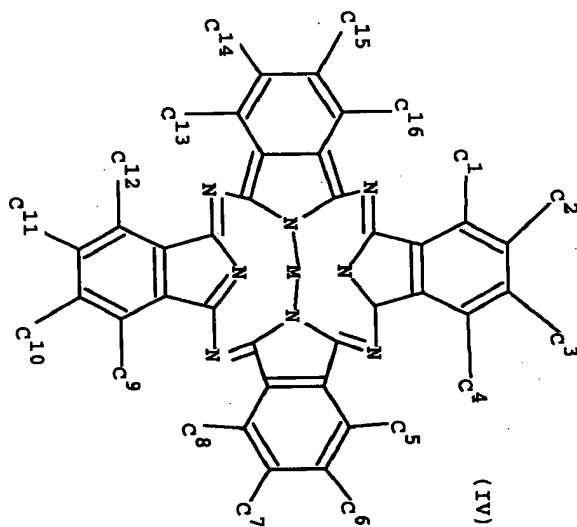


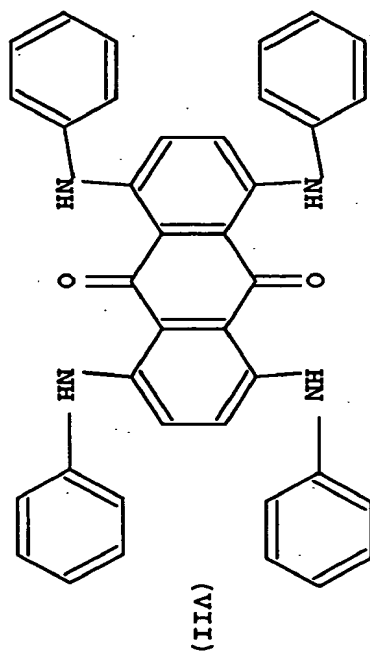
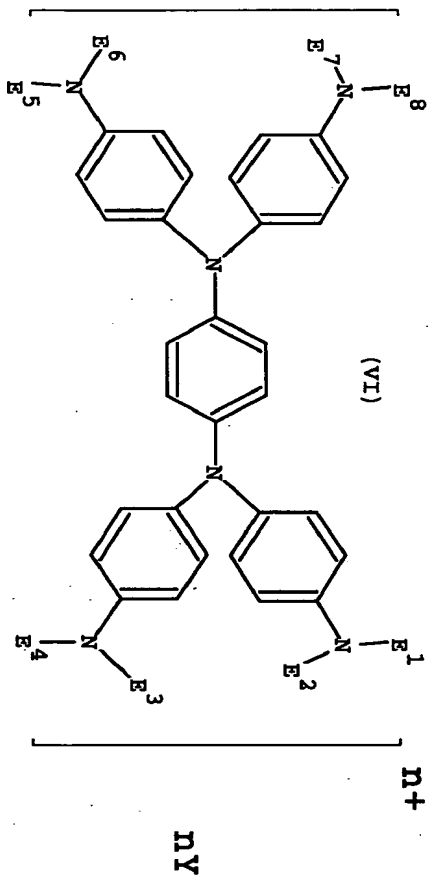
<p>96-205767/21 A97 E24 G02 (A14) MITK 93.09.10  MITSUI TOATSU CHEM INC *JP 08073792-A  94.07.05 94JP-153777(+93JP-226000) (96.03.19) C09D 11/00, 11/02,  11/10  Ink compsn. used for printing near IR light inspection - including  phthalocyanine cpd., naphthalocyanine cpd., aminium salt and  anthraquinone cpd.  C96-065555  Addnl. Data: 94.09.01 94JP-208605, 93.12.10 93JP-310767</p>	<p>A(12-W7D) E(22-C, 22-C3, 23-B, 25-E) G(2-A4A, 2-A4B)</p>
<p>The ink comprises at least one of a near infrared ray absorber of metal  complex of formula (I), (II) and (III), a phthalocyanine cpd. of  formula (IV), a naphthalocyanine cpd. of formula (V), aminium salt of  formula (VI) and anthraquinone cpd. of formula (VII), at least one of  an acrylic resin (excepting for phthalocyanine cpd.), hydrocarbon  resin, a copolymer of acrylic cpd. and hydrocarbon as a binder resin;</p>	<div data-bbox="1128 1260 1380 1890"> <p>(I)</p> </div> <div data-bbox="974 1428 1079 1680"> <p>(II)</p> </div> <div data-bbox="828 1365 958 1785"> <p>(III)</p> </div>

BEST AVAILABLE COPY



BEST AVAILABLE COPY

JP 08073792-A+1



A<sup>1</sup>-A<sup>8</sup> = H, halogen, NO<sub>3</sub>, CN, SCN, NCO, acyl, carbamoyl, alkylamino carbonyl, alkoxy carbonyl, aryloxy carbonyl, alkyl, aryl, aryloxy, alkylthio, arylthio, alkylamino, arylamino; B<sup>1</sup>-B<sup>4</sup> = H, CN, acyl, carbamoyl, alkylamino carbonyl, alkoxy carbonyl, aryloxy carbonyl, alkyl, aryl; R<sup>1</sup>-R<sup>4</sup> = alkyl, aryl, M = divalent metal, tri, tetravalent substituted metal, oxy metal; C<sup>1</sup>-C<sup>16</sup>, D<sup>1</sup>-D<sup>24</sup> = H, halogen, alkyl, alkoxy, aryl, aryloxy, alkylthio, metal, oxy metal;

JP 08073792-A+1/2

BEST AVAILABLE COPY

arylthio, alkylamino, arylamide, amide;  
 $E^1-E^8 = H, alkyl$ ;

$Y = \text{halogen, SbF}_6, ClO_4, BF_4, NO_3$ ;

$n = 1, 2$ .

The above hydrocarbon portion may be substituted.

#### USE

The ink is used for printing a near infrared ray inspection material including banking material, pass, tickets, prepaid card, an identity card etc.

#### ADVANTAGE

The ink has a high light stability, and the printed matter by the ink shows high contrast by the difference of reflection in near infrared ray region between the printed portion and not printed portion.

#### PREFERRED COMPOSITION

The ink comprises UV absorber, a singlet oxygen quencher, a radical trapping agent or a solvent.

(CM)

(16pp011DwgNo.0/0)

JP 08073792-A/3

BEST AVAILABLE COPY